

GENERAL REFERENCE DOCUMENTS

The following classified references provide basic data (e.g., device design, purpose, location, time, sponsor, name [shot], detonation environment [tower, balloon, air drop], maps, results [yield], etc.) for the time periods shown;

DASA-1220 Trinity to Hardtack 1945-1958

DASA-1211 Nougat to Dominic II

DASA-1212 Storax (1 July 62-30 June 63)

DASA-1213 Niblick (1 July 63-30 June 64)

WT-1445 Technical Summary of Military Effects; Programs 1-9.

Pg-23 Table of events, devices, yields, coordinates, height of burst.

Pg-24 Table of Meteorological Conditions

Pg-25 Table of Project Participation

Pg 26-29 Organizational Charts

Pg 77-80 Description of Radiation Experiments & Summary

Pg 81-86 Results of Radiation Experiments

AIR SAMPLING and SAMPLING, SAMPLE COLLECTION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFCRL - Natural Aerosols and Nuclear Debris Studies	AFCRC/NANDS PR
AFSWC - Operation Nougat	SWC SWOP 1-2134
CONVAIR - Fission Product Field Release Program for Evaluation of Nuclear Aircraft Hazards	CVC NARF 58-13R
CONVAIR - Fission Products Field Release Test-I	SWC TR 59-44
AFCRC - Preliminary Report on Particle Analysis of Debris from Ivy, Mike, and King	AFCRC 7
AFCRC - Preliminary Report on Radiochemical Analysis of Upshot-Knothole	AFCRC 8
AFCRC - Report on Studies of Particulate Debris from Shots Tumbler-3 and Snapper-3	AFCRC TR 53-4 AWD
AFSWC - A Study of the Fission Product Gamma Spectra of a Nuclear Cloud at Early Times	SWC TR 58-44
AFSWC - Support of the AEC for Cloud Sampling	SWC TN 56-34
AFSWC - Technical Air Operations, Operation TEAPOT	WT-1206
Chem & Rad Labs - Fallout & Cloud Particle Studies, Op. Ivy	WT-617
DOD - Scientific Director's Summary Report, ROLLER COASTER	DASA- 1644
Isotopes - Fallout Collection, Op. ROLLER COASTER	POR 2503
Lamont Geol. Obs. - Radiological Hazards from Contaminated Aircraft	SWC SWR TM 59-4
LRL - Teapot Preoperational Report, Sample Collection	UCRL 4415
LASL - The Turquoise Book, Operation Ivy	OI TB

AIR SAMPLING and SAMPLING, SAMPLE COLLECTION (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NRDL - Characteristics of the Radioactive Cloud from Underwater Bursts, HARDTACK	WT-1621
NRDL - Fall-Out & Airborne Activity in Op. WIGWAM	WT-1017
NRDL - Radiological Effects from an Underwater Nuclear Explosion	POR-2004
NRDL - Some Radiochemical and Physical Measurements of Debris from an Underground Nuclear Detonation	PNE 229F
NRDL - Spectrometric Analysis of Gamma Radiation from Fallout from Operation REDWING	NRDL-TR-146
Nuc. Def. Lab - Residual Alpha Contamination from Very-Low-Yield Detonations	NDL-TR-60
Scripps Inst. - Collection of Early Water Samples for Radiochemical Analysis & Yield Determination, WIGWAM	WT-1039
Weath. Bur - PROJECT Stemwinder, DOMINIC	WT-2060

ARGUS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SWC-TR - Radiation From Argus Electrons	SWC-TR-59-35
AFSWC - Personnel Hazards Associated with Argus Electrons	SWC-TR-61-92
AFSWC - Project Jason Final Report	SWCSWR MP-1
DASA - Report of the Commander	WT-1665

APACHE BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
EG&G - Composite Cloud Data - Operations IVY, CASTLE, REDWING	EG&G-TM-B-357

ASROC

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NOTS - Operation Sailor Hat; ASROC	POR-4062
NOL - Surface Phenomena	POR-2001
DTMB - Scientific Directors Summary Report	POR-2007

ATMOSPHERIC BURSTS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWP - HARDTACK Summary Report	AFSWP-OH-SR
DASA - Technical Summary of Military Effects, Programs 1-9, Op. TEAPOT	WT-1153
LASL - CROSSROADS Handbook of Explosion Phenomena (includes Safety, Health, Gamma, & Neutron)	LA-550
USA-NDL - Effects of the DAVY CROCKETT Type Nuclear Weapons (LITTLE FELLER I & II)	NDL/TR-64

ATOMIC CLOUD-SAMPLE COLLECTION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - History of AF Atomic Cloud Sampling	SWC SWEH 2-0034
LRL - Buggy: Special Cloud Content Studies	PNE 330
LRL - Distribution of the Radioactivity from a Nuclear Cratering Experiment	WT-1817
LFE Corp. - Special Particulate Analysis of Debris Samples from Airbursts	DNA 4038F

UCRL - Estimate of the Radioactivity Released in the BANEBERRY Event	UCRL 51095
EG&G - Analysis of Grable Nuc. Cloud Motions	EG&G/LAD/8566

ATOMIC WEAPONS TESTS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Boeing & WADC - B-52D Operation HARDTACK Data, Vols I thr	WADC TN 59-106
AFSWC - Final Report of Op. PLUMBBOB	SJC-HIST. OP FR-F7 (4950)
DASA - Nuclear Weapons Effects Test Summary	WDA 625

BALL OF FIRE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Signal Research Lab - Radar Determination of Fireball Phenomena (includes U.S. destroyers)	WT-1639
Columbia Univ N.Y. Electronics Res. Labs - Microwave Attenuation Final Report (aircraft flying behind fireball)	POR-2043
G.E. TEMPO - BLUE GILL Third Report of the Fish Bowl Rapid Interpretation Group (includes Ship & Aircraft locations, eyewitness accts.)	DASIAC rpt. 8
G.E. TEMPO - King Fish Fourth Report of the Fish Bowl Rapid Interpretation Groups (includes ship and aircraft locations and eyewitness account)	DASIAC rpt. 9
DASIAC - Atmospheric Effects, Bibliography	DASIAC/B-AE
NOL - Blast Pressures and Shock Phenomena Measurements by Photography (includes aerial photo)	WT-902
Wright Air Development Center - IBDA Phenomena and Techniques (Operation Upshot-Knothole- three radar equipped aircraft)	WT-751
Air Force Cambridge Research Center/Mass and Technical Operations Inc. - Thermal Flux and Albedo Measurements From Aircraft (four aircraft)	WT-1333
Bureau of Naval Weapons - Narrow-Band Infrared Spectral Irradiance of High Altitude Bursts (Operation Hardtack - airborne station)	WT-1651-2
SRI - Radar Clatter Measurements--Optical (ships)	POR-2028 Vol 4&5
Air Force Cambridge Res. Labs. et al - High Altitude Nuclear Detonation Optical Infrared Effects (aircraft)	POR-2035 Vol 1

BASE SURGE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWP - Blast & Shock Measurements, Op. Jangle	WT-368
LRL - Pre. Summary Report of A Nuclear Cratering Experiment	POIR-1833
NOL - Base Surge Measurements by Photography, CASTLE	WT-903
NOL - Surface Phenomena, DOMINIC (Environment)	POR 2001
NOL - Upwind Extent of Base Surge at Test Baker, CROSSROADS	NOL TR 66-151

BOLTZMAN BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Oak Ridge Nat. Lab. - Neutron Dosimetry by Threshold Detector	WT-1417

BRAVO BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SRI - Crater Survey. Op. CASTLE	WT-920
NRDL - Chemical, Physical & RadioChemical Characteristics of the Contaminant	WT-917
ASEL - Gamma Rate vs Time	WT-913
NRDL - Nature & Extent of Internal Radioactive Contamination of Human Beings, Plants & Animals Exposed to Fallout	WT-936

BUSTER

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFOAT-1 Transport of Radioactive Debris from Op. Buster Jangle	WT-308
SWC-Special Weapons Command Participation in Op. Buster Jangle	SWC/HIST/OBS/1951
AWS-Air Weather Service Participation in Op. Buster	WT-342
AFSWP-Operation Buster	WT-412
LASL-Gamma Radiation Exposure as a Function of Distance	WT 408
NMRI-Radiation Dosimetry	WT-315
LASL-Radiological Safety	WT-125
LASL-Summary of Information on Gamma Radiation from Atomic Weapons	LA-1620
LASL-Measurement of Gamma Ray Intensity vs Time	WT-356
LASL-Staff Reports - Op. Buster Jangle	WT-421

BUTTERNUT BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Bu. Naval Weapons - In-Flight Structural Response of a 4D-1 Aircraft	WT-1635
Bu. Aeronautics - In-Flight Structural Response of FJ-4 Aircraft	WT-1636

CASTLE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFOAT - Nuclear Calibration Analysis of Atomic Debris	WT-932
AFSWC - History of Task Group 7.4 Participation in Op. Castle	SWC-TG7.4-1
ARDC - Radiation Hazards During Atomic Warfare	ARDC-C4-23676
AFSWP - Fallout Symposium	AFSWP-895
AFSWP - Summary RPT of the Commander, Task Unit 13.	WT-934
Chemical & Radiological Lab - Radiochemical Analysis of Fallout	WT-918
Chemical Corps - Fallout Studies	WT916
Cook Electric Co. - Thermal Effects on B-47 Aircraft in Flight	WT-926
OCA - TG7.4 - Final RPT of the Commander Air Task Group 7.4	OCA TG7.4 (FR)
Tracer Lab - Particle Analysis of Nuclear Debris From Surface and near Surface Bursts 20 QTLY RPT	TRL TB 66-113
LASL - RPT of the Commander TG 7.1	LA/JQ-11
LASL - External Neutron Measurements	WT-952
LASL - Radiological Safety	WT-942
LASL - RPT of the Commander TG 7.1	WT-940
E, G&G - Communications - Operations CASTLE -	WT-941

CHECKMATE BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NDL - Alpha Contamination Monitoring (Resulting from Warhead Destruct)	POR-2052
SRI - Airborne Radar Observations Durng FISHBOWL (Incl. Aircraft Used)	SRI/4-1767
DAS - Organizational, Operational, Funding, Logistic & Scientific Summary - Op. DOMINIC	POR-2053

CMOS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
RIT - Transcient Surface Damage, Final Report	RTI-43-U-812

COAXIAL CARLFS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SCDR - Sioux Vulnerability Experiments in the Platt Event, Nougat Series -	SCDR 165-62

COBALT ISOTOPES

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DASA - Metabolic Changes in Humans Following Total Body Irraadiation -	DASA - 1633
SAM - Radiation - Induced Central Metrons System Death	SAM-59-58
DASA - Neurophysiological and Behavioral Effects of Incidental Irradiation of "Normal" Humans, Final Report.	DASA-2378

CONTAMINATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Technical Air Operations, Op. TEAPOT	WT-1206
AFSWP - HARDTACK Summary Report	AFSWP OH SR
AFSWP - Tests of Service Equipment & Operation, Op. JANGLE	WT-376
AFSWP - Shots Wagon & Umbrella, Op. HARDTACK Prelim Report	ITR-1658
AEC - Radioactive Contamination of Certain Areas in the Pacific Ocean from Nuclear Tests	AEC RCPO
Bkr. Sci. Resurvey - Tech. Report, Bikini Scientific Resurvey	XRD-212
Chem. War. Labs - Decontamination & Protection, Op. REDWING	WT-1312
Chem. War. Labs - A Historical Discussion of Contaminating Events Occurring During US Atomic Test Operations	CWLR-2176
AWRE - Op. TOTEM Decontamination of Radioactive Clothing	FWE-56
Nav. Med. Res. Inst. - Exposure of Marshall Islanders & Military Personnel to Fallout, Op. CASTLE	WT-938
NRDL - Protection & Decontamination of Land Targets & Vehicles	WT-400
RAND - Long Term Fallout Contamination from Surface Burst Nuclear Weapons	RAND RM-2393
Sandia - The Extent of Close-In Fallout From an Underground Nuclear Burst	SC-DR-64-1770
Sandia - Plutonium Contamination from One-Point Detonation of an XW-25, Op. PLUMBBOB	WT-1510
Eberline - Alpha Survey, Op. ROLLER COASTER	POR 2505

CROSSROADS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Technical report of AAF Instrumentation, Crossroads Project	OC/TG/ 1.5/TR
JTF-1, Atomic Bomb Tests, Final Report, Army Ground Task Group 1.4	OC/AG-
JTF-1 Historical Report: Atomic Bomb Tests A&B	OC/FR/7
JTF-1 Operational Report on Atomic Bomb Tests A&C	OC/CJTF-1/xrd/OP
JTF-1 Overall Summaries of Target Vessels: Tests A&B, 2V,	OC/BG/S10
JTF-1 Photogrammetric Plot of F-13&C-54 A/C Orbit Positions...	OC/MR-2
CJTF-1 Report of the Technical Director, Opn. Crossroads	OC/CJTF-1/xrd
JTF-1 Technical Report of Opn. Crossroads	OC/CJTF-1/xrd/TR
JTF-1 Tests A&B, Opn. Crossroads, Final Report, 5V, Buord Material Group	OC/OG
JTF-1 Test A&B, Op. Crossroads, Final Report, 2V., Final Report	OC/BG/S2
JTF-1 Test A&B, OPN. Crossroads, Final Report, ., 2 Vol, Final Report	OC/BG/S1
JTF-1 Test A, Opn. Crossroads, Final Report. BU Supplies and Accounts Gp.	
JTF-1 Tests A&B, Opn Crossroads, Final Report, BU. Yards & Docks	OC/FR/2
JTF-1 Tests A&B, Opn. Crossroads, BU. Aeronautics Gp.	OC/BG/S2a
JTF-1 USS Independence (CVL 22) Test A, 4V,	OC/BG/A15
Nav. Ord. LAB, Upwind Extent of the Base Surge, Test B,	NOL/TR/66-151
JTF-1 - Indices to & Sources of Basic Data for BUSHIPS Group Reports	OC/BG/5-14

CROSSTIE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFWL - Air Force Experiment	POR 6264
AFWL - Air Force Experiment	POR 6279
DASA - Technical Directors Summary Report (DOORMIST)	POIR 6269
LMSC - Navy Experiments	POR 6262
LASL - Operation CROSSTIE	LA 4197
SW Rad. Health Lab - Off-Site Environmental Surveillance	PNE-327

BOWLINE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Operation Bowline	LA 4441

DANNY BOY BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
UCRL - Cratering & Radioactivity Results from Nuclear Cratering Detonation in Basalt	UCRL-6999
Nuc. Defense Lab. - On-Site Fallout from a Partically Contained Nuclear Burst in a Hard Medium	POR 1819

DIAGONAL LINE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
BRL - Neutron - Fluence and Gamma Exposure Measurements, Final Report.	POR-6489

DIAMOND DUST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DASA - Final Summary Report	POR-6435

DIAMOND SCULLS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFWL - Minute Gun Series, Final Reports	POR-6714
AFWL - Rigid Body Momentum, Final Reports	POR-6717

DIANA MIST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFWL - DIANA MIST Interim Summary Report	WL/OM/POISR

DOMINIC I

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
JTF8 - Technical Nuclear Safety Study of Project DOMINIC	SWC SWVNA 2-17
SWC - Analysis of Preliminary Results of 1961-1962 Nuclear Tests and Implications on USAF Systems	SWC SWOP 2-0445
Cook - Thermal Radiation from Air Burst Nuclear Weapons Incident on Low Altitude Aircraft	CEC P-3861 FR
DASIAC - BLUEGILL Phenomenology Rapid Interpretation	DASIAC SR-8
DASIAC - CHECK MATE Phenomenology Rapid Interpretation	DASIAC SR-7
DASIAC - KING FISH Phenomenology Rapid Interpretation	DASIAC SR-9
DASIAC - Operation FISH BOWL Technical Summary	DASIAC SR-6
DASIAC - TIGHT ROPE	DASIAC SR-10
D. Taylor Model Basin - Scientific Director's Summary Report	POR 2007
DASA - Flashblindness & Chorioretinal Burn Research	DASA-544
DASA/FC - Organizational, Operational, Funding, Logistic and Scientific Summary	POR-2053
JTF8 - Report by Commander JTF8 on the 1962 Pacific Nuclear Tests (Operation DOMINIC)	JTF-8/DOMINIC W.enc A-N
JTF8 - Report by Commander JTF8 to Chairman, USAEC, and Chairman, JCS, on 1962 Pacific Nuclear Tests	
LASL - The CHAMA Test of Follow-on Portion of Operation DOMINIC	LAMS-2804
LASL - Operation DOMINIC, CHECKMATE Preliminary Field Report	LA J-10 990
LASL - "Quick Look" at the Technical Results of BLUEGILL TRIPLE PRIME	LA JO-641
LASL - A Quick & Cursory Summary of the Christmas Island Portion of Operation DOMINIC	LAMS-2757
Nuc. Def. Lab, Edgewood - Gamma Radiation Measurements	POR 2013

DOMINIC I (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
6570th Aerospace Med. Res. Lab - Production of Choriorretinal Burns by Nuclear Detonations & Tests of Protective Devices & Phototropic Materials	POR-2014 vol 1&2
SLL - CHETCO Event, Operation Dominic	SCDR 169-62
Tracerlab - Analysis of Particulate Debris from Pacific Air Shots	TRL TLW 5235
AFSWC - History of Air Force Participation in Operation DOMINIC	SWC HIST OD

DOMINIC II (SUNBEAM)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
ASD/WPAFB F-100F/GAM 83B Simulation, Operation SUNBEAM includes A/C position	POR-2249
AFSWP Initial Gamma Rate Measurement	POR-2292
AFWL Radioisotope & Partice Size Characteristics of a Low Yield Surface Nuclear Detonation (includes A/C Cloud Penetration)	POR-2291
AFWL Tissue Dosimetry	POR-2270
AERDL - Measurement of Fast Neutron Dose Rate As A Function of Time	POR-2270
AERDL - Measurement of Gamma Dose Rate as a Function of Time	POR-2229
BRL - Shielding Effectiveness of Enclosure Shields in a Fallout Field (includes Fallout Measurements For 48 HRS (SMALL BOY)	POR-2221
EG&G - Aero Radioactivity Survey (SMALL BOY)	EG&G-1183-2060
AERDL - Residual Radiation in the Crater & Crater up Area - of Low yield Nuclear Devices (LITTLE FELLER II & JOHNIE BOY)	POR-2267
NDL - Initial Radiation Measurements (SMALL BOY)	POR-2209
NRDL - Fallout Collection & Gross Sample Analysis (SMALL BOY)	POR-2215
NRDL - Fallout Sampling & Analysis: Radiation Dose Rate & Doserate Histories at 16 Locations (JOHNIES BOY)	POR-2289
NRDL - Gamma Radiation Characteristics-Angular Distribution Over a Desert Terrain Fallout Field	NRDL-TR-856
NRDL - Ionization Rate Measurements (SMALL BOY)	POR-2217
NRDL - Neutron Flux Measurements (includes flux vs ground Range)	POR-2264
NRDL - Radiological Surveys, Final Report	POR-2266

DOMINIC II (SUNBEAM) (CON'T)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AMDL - Transit Radiation Dose Rate (JOHNIE BOY & LITTLE FELLER II)	POR-2269
DASA - Organizational, Operational, Funding, & Logistic Summary (NOUGAT & SUNBEAM)	POR-2293

DESTROYERS-CONTAMINATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NRDL - Shipboard Contamination Ingress from Underwater Bursts (includes WAHOO & UMBRELLA DATA)	WT-1620
NRDL - Shipboard Radiation From Underwater Bursts (Op. Hardtack)	WT-1619

DESTROYERS-EFFECTS OF ATOMIC EXPLOSIONS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
BUSHIPS - Ship Damage Assessment & Technical Support of Test Elements, Op. DOMINIC	POR-2006
DTMB - Shock Loading in Ships from Underwater Bursts and Response of Shipboard Equipment (Identifies Target Ships) Op. Hardtack	WT-1627

DISCUS WHEEL

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SLA - Scientific Director's Summary (Ferris Wheel Series)	POR-3000
SLA - Technical Directors Summary RPT. (Includes TINY TOT FERRIS WHEEL Series)	POR-3021
SLA - Technical Director Summary RPT. (Includes Shot RED HOT)	POR-3034

DOSAGE, DOSAGE RATES

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFCRC - The Radiation Hazards to Personnel Within an Atomic Cloud: UPSHOT-KNOTHOLE	WT-743
AF - Nuclear Radiations from Atomic Bombs, Effects & Shielding USAF	OA WP-10
AFSWC - Early Cloud Penetrations: REDWING	WT-1320
AERE (Harwell) - Nuclear Accident Dosimetry	AERE R 7485
AFSWC - Initial Gamma Radiation from an Atomic Weapon Air Burst in a Standard Atmosphere	SWC TN 53-2SWR
AFSWC - Prompt Doses & Dose Rates from Nuclear Weapons	SWC TR 58-13
AFSWC - Radiation Effects from New-Type Low-Yield Weapons	SWC TDR 62-58
AFSWC - Safe Levels of Contamination from Fission Products	SWC TN 56-2
AFSC - Systems Applications of Nuclear Technology: Initial Radiation Calculations and Effects on Personnel	AFSC M500-4
AFWL - Biological Dosimetry of Ionizing Radiation as Applied to Triage of Casualties Following a Thermonuclear Detonation	RTD TDR 63-3049
ARDC - Impact of Fallout on AF Operations	ARDC TR 56-1
ARDC - Radioactive Fallout from Contact Burst Megaton Bombs	ARDC C4-18098
Armour - Neutron Data Evaluation	ARF 1181-9
Boeing - Time Behavior of the Early Gamma Radiation from Surface Contact Nuclear Weapon Detonations	BOAC D290365
Army Chem. & Rad. Labs. - Maximum Allowable Concentrations of Fission Products in the Air as a Function of Exposure Time After Detonation	CRLIR-81

DOSAGE, DOSAGE RATES (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army CRL - Radiological Estimation of Total Activity included within Dose-Rate Contours for BRAVO Shot: Op. CASTLE	CRLR 636
Army Chem. Warfare Labs - External Neutron Measurements 1952 thru 1958	CWLR2377
CWL - Gamma Dose from Very Low Yield Bursts	WT-1677
CWL - Neutron Flux from Large Yield Bursts	WT-1622
CWL - Neutron Flux from Selected Nuclear Devices: PLUMBBOB	WT-1412
CWL - Neutron Flux from Very Low Yield Bursts	WT-1679

DOSAGE RATES

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DASA - Predicted Blast, Thermal, and Prompt Radiation Effects for the DAVY CROCKETT (includes Fig data)	DASA FC/09590643
LASL - Radiation Contours from Nuclear Weapons Detonations	LA-4220
NRDL - Early Dimensions and Radiation Intensities of the Radioactive Pool Resulting from Shot SWORDFISH	NRDL-7R-770
NRDL - Radiation Hazards to Aircrews Exposed to the Atomic Cloud of an Atomic Bomb Detonation	NRDL-379
NDL - Effects of the DAVY CROCKETT Type Nuclear Weapons (includes Ivy Flats Tactical Troop Orientation)	NDL-TR-64
Oak Ridge Lab - Radiation Dosimetry for Human Exposures, Op. PLUMBBOB	WT-1504
RAND - Residual Gamma Radiation from Surface Nuclear Explosions (includes JANGLES & IVY Shot Data)	RM-1177
RAND - Transport and Early Deposition of Radioactive Debris from Atomic Explosions (includes TUMBLER-SNAPPER and IVY Tests)	R-265
Army Chem. Corps. NDL - Bibliography, with Abstracts, of Reports of Nuclear Defense Lab and its Predecessors	NDL-TR-25
AFWL - Aircraft Ionizing Doses and Dose Rates from Radioactive Clouds & Fallout Final Report	WL/TR/75-214
Army Signal R&D Lab - Operations of the Fallout Group of Project 50.3 (includes PLUMBBOB Data)	SRDL-TR-2088
DASA - Base Surge Radioactivity from Underwater Shots WAHOO & UMBRELLA	DASA-533TAR

DOSIMETRY

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Initial Nuclear Radiation Information for Calculating Biological Dosage from Low Yield Nuclear Weapons	SWC TN 53-37
AFSWC - Nuclear Radiation Environment Resulting from Under- ground Detonations	SWC-TDR 62-150
AFSWP - Military Aspects of the Biological Effects of Radiation	AFSWP-611
AEC - Physical Measurements of Gamma & Neutron Radiation in Shelter & Instrumentation Evaluation	WT-789
Harwell - Nuclear Accident Dosimetry	AERE R 7485
UCLA - Measurement of Initial & Residual Radiations by Chemical Methods: Op. TEAPOT	ITR-1171
DASA - Technical Summary of Military Effects, Programs 1-9; Op. PLUMBBOB	WT-1445
NBS - Delayed Gamma-Ray Measurements: Op. GREENHOUSE	WT-81
Nav. Med. Res. Inst. - Gamma Depth Dose Measurement in Unit-Density Material: Op. SNAPPER	WT-529
Nav. Med. Res. Inst. - Radiation Dosimetry: Op. BUSTER	
NRDL - Physical Factors & Dosimetry in the Marshall Island Radiation Exposures: Op. CASTLE	WT-939
REIC - Dose-Rate Effects in Radiation Damage	RECI Memo 3C

DOSIMETRY (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AF School Av. Med. - Radiation Measurements Utilizing the USAF Chemical Dosimeters. Op. PLUMBBOB	
SRI - Beta Dosimetry for Fallout Hazard Evaluation	SRI EGU 8013
SRI - Beta Radiation Dosimetry for Fallout Exposure Estimates	SRI 7402
ANDL - Integrated Gamma Dose Measurements: SUNBEAM	POR 2265
DASA - Interim Summary Report: ROLLER COASTER	POIR-2500

EASY BURST-FALLOUT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NRDL - Interpretation of Survey Meter Data, Annex 6.5, Scientific Directors Report - Op. Greenhouse	WT-26

EASY BURST-GAMMA RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NRL - Prompt Gamma-Ray Measurements, Part II, Prompt Gamma vs Time, Annex 1.1, Scientific Directors Report, Op. Greenhouse	WT-36

EFFECTS OF ATOMIC BLAST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
WADC - Airplane F-101-Effects of Atomic Blast	WADC/TN-56-523
WADC - In-Flight Participation of an F-101A Aircraft	WT-1332
NRDL - Measurement of Thermal Radiation Incident on USAF Aircraft in flight, Op. REDWING	NRDL-TR-330

EFFECTS EXPERIMENTS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFWSP - Final Report - Operation SNAPPER	WT-564

FALLOUT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Contamination of Water Supplies by Radioactive Fallout	SWC TN 58-7
AFSWC - Water Contamination in Fallout Areas	SWC TN 59-1
Army Chem. Corps Nuc. Def. Lab - Particle Studies of Fallout from a Very Low Yield Weapon, HARDTACK	NDL-TR-39
AEC - Radioactive Fallout - A Two Year Summary Report	TID 5550
AEC - Radioactive Fallout from Nuclear Detonation of February and April 1960	TID 6235
AEC - Remote Radiological Monitoring, PLUMBBOB	WT-1509
AEC - Some Effects of Ionizing Radiation on Human Beings	TID 5358
BRL - Electron Microprobe Analysis of Fallout Particles from 4 US Nuclear Detonations	BRL-1611
BUSHIPS - Standard Recovery Procedure for Tactical Decon- tamination of Ships	WT-1323
UCLA - Distribution, Characteristics and Biotic Availability of Fallout, Op. PLUMBBOB	WT-1488

FALLOUT (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Chem. & Rad Labs - Maximum Allowable Concentrations of Fission Products in Air as a Function of Exp. Time After Detonation	CRLIR-81
Chem. & Rad Labs - Radiological Estimation of Total Activity Included with Dose-Rate Contours, Op. CASTLE	CRLR-636
Chem. War. Labs - Alpha Contamination Studies PLUMBBOB & HARDTACK	CWLR 2385
CWL - Land Fallout Studies, Op. REDWING	WT-1319
DASA - Fallout Phenomenology, CROSSROADS	DASA 2003
DASA - Radioactive Fallout from Nuclear Explosions	DASA 1188
DASA - Tech. Summary of Military Effects Programs, REDWING	WT-1344
EG&G - Ecological and Environmental Effects for Local Fallout from Schooner	PNE-526
Ford - Contributions to Fallout from Neutron Activated Soil	DASA-1562
AWRE - Gamma Radiation Studies & Decontamination Experience	FWE-7
AWRE - Op. BUFFALO: The Aerial Survey of Radioactivity Deposited on the Ground	FWE-147
AWRE - Fallout Surveys	FWE-173
NIH - Nature & Distribution of Residual Contamination, JANGLE	WT-386
LASL - Activities of the Special Weather Advisor Service TUMBLER-SNAPPER	WT-552
LASL - Activities of the Special Weather Advisor Service UPSHOT-KNOTHOLE	WT-705

FALLOUT (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Report of Fallout Study of January 1956	LAMS-2033
LASL - Report of the Advisory Personnel to the Air-Sampling Program, TUMBLER-SNAPPER	WT-566
LASL - A Summary of Test Results, Op. RANGER	LAMS-1240
NRDL - Analysis of Fallout Data; CASTLE	NRDL TR-223
NRDL - Analysis of Gamma Radiation from Fallout: TEAPOT	NRDL-TR-106
NRDL - Contamination Patterns at Op. JANGLE	NRDL-399
NRDL - Distribution & Intensity of Fallout, CASTLE	WT-915
NRDL - Distribution & Intensity of Fallout from the Under-ground Shot, TEAPOT	WT-1154
NRDL - Fallout Studies & Assessment of Radiological Phenomena PLUMBBOB	WT-1465
NRDL - Gamma Radiation Field Above Fallout Contaminated Ground, TEAPOT	WT-1225
NRDL - Local Fallout from Nuclear Test Detonations	DASA 1251
NRDL - Nature, Intensity & Distribution of Fallout from MIKE, Op. IVY	WT-615
NRDL - Predicted Radiological Effects for 3 Underwater Nuclear Detonations (HARDTACK)	NRDL-TM-69

FALLOUT (Cont'd)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AEC-NYO - Measurements of Beta & Gamma Ray Characteristics of Shot Debris & Fall-out of Nuclear Weapons, TEAPOT	ITR-1185
OFF of Spec. Weap. Dev. - Prediction of Radioactive Fallout	OSWDD 55-19-W/C1
RAND - Catalog of Fallout Patterns	RAND RM-1676 AEC
RAND - Close-in Fallout	RAND R-309
Sandia - Residual Contamination from Nuclear Bursts	SC-3465 (TR)
Sandia - Summary Report TG57, Op. PLUMBBOB	ITR-1515
Scripps - Distribution of Radioactive Fallout by Survey Analysis of Sea Water: CASTLE	WT-935
Scripps - Fallout Studies by Oceanographic Methods: REDWING	WT-1316
Army Sig. Eng. Labs - Gamma Radiation Exposure: CASTLE	WT-912
SRI - Beta Dosimetry for Fallout Hazard Evaluation	SRI EGU 8013
SRI - Mass Contour Ratio for Fallout & Fallout Specific Activity of SHOT SMALLBOY	NRDL TRC 68-15
URS - Some Properties of Radioactive Fallout: PRISCILLA	URS 757-4
URS - Some Properties of Radioactive Fallout: COULOMB C	URS 757-5
URS - Some Properties of Radioactive Fallout: DIABLO & SHASTA	URS 757-3
Weath. Bur. - Fallout Patterns from Op. HARDTACK	WB-LA-3

FLASH BLINDNESS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Aerospace Med. Res. Lab - Analysis of the First Thermal Nuclear Pulse and Associated Eye Effects	AMRL/TR/67-214
Continental Army Comd - Effect of Light from Very Low Yield Nuclear Detonations on Vision of Combat Personnel, Op. HARDTACK.	WT-1664
Nat. Cash Register Co - Nuclear Flash Early Time Histories, Op. DOMINIC (C-54 and C-118 Aircraft)	AMRL-TDR-63-73
School of Aviation Medicine - Flash Blindness (personnel with and without Protection), Op. BUSTER	WT-341
School of Aviation Medicine - Flash Blindness (personnel Exposed to Flash) Op. SNAPPER	WT-530
School of Aviation Medicine - Ocular Effects to Thermal Radiation from Atomic Detonations (12 persons exposed) Op. UPSHOT-KNOTHOLE	WT-745

FLATHEAD BURST

<u>TITLE</u>	<u>LOCATION</u>	<u>LIBRARY</u>
Sig. Eng. Labs - Ionospheric Effects of Nuclear Detonations (A/C Flying under Radiation Cloud)		WT-1337
BU AIR-NAVY - Airborne High Resolution Spectral Analysis, Op. REDWING (Aircraft Participation)		WT-1342

GAMMA RADIATION

SC - Residual Contamination from Nuclear Bursts	SC-3466 (TR)
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GREENHOUSE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Atmospheric Conductivity (includes magnitude, direction & velocity of fallout).	WT-71
Radiological Safety, Greenhouse Scientific Directors Report Annex 9.3	WT-89
Staff Reports, Parts I-IV (includes Personnel & Admin.)	WT-98
Summary of Visible Damage to a/c During Op. Greenhouse (manned a/c)	MIT-AE-97
Contamination - Decontamination Studies	WT-27
Fallout Phenomenology.	WT-4
Radiation Hazards to Aircrews Exposed to the Atomic Cloud...	NRDC-379
Transport 7 Early Deposition of Radioactive Debris...	R-265
Part IV TV 3.1.4, Part VII Admin	WT-39
Sandia Corp. Proving Ground Group	WT-102
History of Opn. Greenhouse	WT-47
History of Opn. Greenhouse	WT-48
Operation Greenhouse - Meteorology	WT-49
Neutron Measurements, Annex 1.5 Scientific Directors Report	WT-68
Prompt Gamma-ray Measurements, Annex 1.1 of Scientific Directors Report	WT-66

HARD TACK I

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Gamma Radiation and Induced Activity from Very Low Yield Bursts	WT-1681
AFSWP - Hard Tack Summary Report	AFSWP OH/SR
AFSWP - Two Underwater Nuclear Test Detonations	ITR-1658
ASRDL - X-Band Radar Determination of Nuclear Cloud Parameters	WT-1640
ACWL - Residual Radiation From A Very Low Yield Burst	WT-1678
DASA - Base Surge Radioactivity From Underwater Shots	DASA-533 TAR
JTF.7 - Report of the Commander TG 7.1	WT-1682
NRDL - Fallout Measurements By Aircraft and Rocket Sampling	WT-1625
SANDIA CORP - Fallout Contamination From A Very Low Yield Burst	WT-1602
DASA - Technical Summary of Military Effects Programs 1-9.	ITR-1660
UCID - Composite Yields. Radiochemistry Ratios and Efficiencies.	UCID-4290

HARD TACK II

UCID - Composite Yields. Radiochemistry Ratios And Efficiencies	UCID-4291
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INDIRECT BOMB DAMAGE ASSESSMENT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Advance Industries Inc. - Airborne Antennas and Photo Tubes for Determination of Nuclear Weapon Yield, Op. REDWING (A/C Participation)	WT-1352
BUAIR - Test of Airborne Naval Radars for IBDA, Op. TEAPOT (AJ-2 and R4D-5Q Aircraft Participation)	WT-1142
WADC - Operational Test of Radar and Photographic techniques for IBDA, Op. SNAPPER (A/C Participation)	WT-534
WADC - Test of IBDA Equipment, Op. TEAPOT (B-50, B-17, F-94 Aircraft)	WT-1141

IMPLOSION WEAPONS

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Aerospace Corp. - Gamma Radiation Incident on a Weapon System During Fly-through of Debris Cloud	SAMSO/TR/71-74

INDUCED RADIOACTIVITY

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Sig. R&D Lab - Initial Gamma Radiation Intensity and Neutron Induced Gamma Radiation, Op. PLUMBBOB (Aircraft & Armored Tanks)	WT-1414
NOL - Blast Measurements Part IV (includes Scientific Dir's RPT) Op. Greenhouse.	WT-53

INFRARED RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DASIAC - Fishbowl Rapid Interpretation Group (includes Locations of Ships, Aircraft)	DASIAC SR-2
BU NAV WEAPONS - Narrow Band Spectral Irradiance of High Altitude Bursts, Op. HARDTACK (P2-V Aircraft Participation)	WT-1651-1

IVY

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SWC-Task Group 132.4, Final Report, Operation IVY	01/TG132.4/FR
Fallout Gamma Ray Intensity, Operation IVY	WT-649
LASL-Gamma Radiation as a Function of Distance, Op. IVY	WT-643
RAND-Transport & Early Deposition of Radioactive Debris from Atomic Explosives	R-265
JTF-132-Radiological Safety, Op. IVY.	WT-614
LASL-Personnel & Administration, Op. IVY.	WT-636
JTG132.1 Report of the Commander JTG 132.1, Op. IVY	WT-608
LASL- Gamma Radiation vs Time	WT-634

IVY PROJ 5.1 AND 5.2

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Gamma Radiation vs Time, Op IVY	WT-634

IVY ADMIN AND ORGANIZATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Report of the Commander, Op. IVY	WT-605

JANGLE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFOAT-1 Aerial Survey of Distant Contaminated Terrain	WT-330
AFOAT-1 Radiochemical, Chemical, & Physical Analysis of a Bomb Debris	WT-320
AWS-Air Weather Service Participation in Op. Jangle	WT-361
AFSWP-Monitor Survey of Ground Contamination	WT-381
AFSWP- Summary Report - Weapons Effects Tests - Op. Buster Jangle	WT-414
BUAIR/WADC-Aerial Survey of Local Contaminated Terrain, Op. Jangle	WT-370
Dept. of Agric.-Analysis of Test Site & Fallout Material, Op. Jangle	WT-371
ERDC- Foxhole Shielding of Gamma Radiation, Op. Jangle	WT-370
NRDL-Analysis of Fallout Data, Part I.	NRDL/TR/220
NRDL Analysis of Fallout Data, Part II,	NRDL/TR/221
NRDL Analysis of Fallout Data, Part III.	NRDL/TR/222
NRDL-Beta-ray & Gamma-ray of Residual Contamination	WT-372
NRDL-Nature & Distribution of Residual Contamination II, Op. Jangle	WT-373
Signal Corps-Total Dosage, Op. Jangle-	WT-331
ARDC-Radiation Hazards during Atomic Warfare,	ARDC/C4/23676
AFOAT-1-Transport of Radioactive Debris, Op. Buster Jangle	WT-308

JOHNNIE BOY BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Calif. Res & Technology Inc. - Early Limited Cloud Characteristics and Gamma Source Distributions for two Shallow-Buried Bursts	DNA-4256F

LACROSSE BURST-GAMMA RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Sig. Engineering Labs - Gamma Exposure vs Distance, Op. REDWING	WT-1310

LASSEN BURST-GAMMA RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Sig. R&D Lab - Initial Gamma Radiation Intensity & Neutron-Induced Gamma Radiation of NTS Soils.	WT-1414

LIGHT (VISIBLE RADIATION)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
WASC - Instrumentation for Measurement of Thermal Radiation, Op. IVY (Airborne Instruments)	WADC TR 53-210
School of Aviation Medicine - Flash Blindness, Op. BUSTER (test subjects with and without protective Devices)	WT-341
Naval Applied Science Lab - Spectral Irradiance and Radiant Exposure Histories of BLUE GILL, Op. FISHBOWL (5 Aircraft Stations)	NASL/9400-12TM3
NRL - Thermal Radiation Measurements Parts I, II, III (of Scientific Directors Report) Op. GREENHOUSE.	WT-120
KOLLSMAN Inst. Corp. - Radiance Measurement of KINGFISH, Op. FISHBOWL (aircraft stations)	KIC/GAD-ER 10 22880

MIGHTY SKY

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - AFSWC Support of Project BLUE ROCK, Test Report	SWC/SWT/TR/66-1
DASA - BLUE ROCK	DASA-25270
DASA - BLUE ROCK Final Report	DASA 1974

MIKE BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
RAND - Residual Radiation from Surface Nuclear Exposions	RM-1177
AFOAT-1 - Radiochemical and Physical Analysis of Atomic Debris	WT-645

NOUGAT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Neutron Spectrum and Total Gamma Dose	POR-1848
AFSWC - Operation Nougat	SWC SWOP- 1-2134
AFSWC - X-Ray Counter Measures, Final Report	POR-1854
UNIV OF CALIF - Some Radiological Observations and Characteristics of Fallout Debris - Danny Boy	POR-1818
DOD - DOD participation in AARDVARK EVENT	VESIAC-C76-VU
DOD - DOD participation in AARDVARK EVENT	VESIAC-C66-VU
DOD - DOD participation in AMADILLO EVENT	VESIAC-C28-VU
DOD - DOD participation in BLACK EVENT	VESIAC-C68-VU
DOD - DOD participation in CHINCHILLA EVENT	VESIAC-C33-VU
DOD - DOD participation in CIMMARON EVENT	VESIAC-C29-VU
DOD - DOD participation in CODSAW EVENT	VESIAC-C32-VU
DOD - DOD participation in DEAD EVENT	VESIAC-C36-VU
DOD - DOD participation in EEL EVENT	VESIAC-C58-VU
DOD - DOD participation in ERMINE EVENT	VESIAC-C31-VU
DOD - DOD participation in HOOSK EVENT	VESIAC-C35-VU
DOD - DOD participation in MINK EVENT	VESIAC-C2110-VUO
DOD - DOD participation in PACA EVENT	VESIAC-C67-VU
DOD - DOD participation in PLATPUS EVENT	VESIAC-C30-VU
DOD - DOD participation in SACRAMENTO EVENT	VESIAC-C77-VU
LASL - Summary of Yield Data Operation Nougat	LA-3145-MS
ARMY CHEMICAL CORPS - On-site Fallout from a Partially Contained Nuclear Burst in a Hard Medium	POR-1819
Reynolds, Elec & Eng - On Site Ras-Safe Report	WT-1832
DASA - Organizational, Operational, Funding & Logistics Summary	POR-2293

NAVAJO BURST GAMMA RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Gamma Radiation as a Function of Distance, Op. REDWING	WT-1361
Army Sig. R&D Lab - Gamma Exposure Rate vs Time	WT-1311

NOUGAT-VETA UNIFORM PROGRAM

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DOD - DOD Participation in Chinchilla II Event	VESIAC-C34

OPERATION REPORTS (ATOMIC WEAPON TESTS - ADMIN & ORG.)

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - GREENHOUSE HANDBOOK of Nuclear Explosions	WT-103
LASL - Report of the Test Director: Op. TEAPOT	LA 1966

PACIFIC PROVING GROUND

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
WADC - B-57B Operation REDWING Data, Vol 1,	WADC-TN-56-465

PALAUQUIN BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
REECO - On Site Radiological Survey Report	PNE-911F

PARTICLE INHALATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Naval Medical Research. Inst. - Study of Response of Human Beings Accidentally Exposed to Significant Fallout Radiation, Op. CASTLE	WT-923

PERSONNEL DECONTAMINATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Office Quartermaster Gen. - Protective Clothing and Clothing and Personnel Decontamination, Op. GREENHOUSE ANNEX 6.9, Sci. Directors Report	WT-12

PLUMB BOB

E, G&G - Gamma Dosimetry By Film-Badge Techniques Project 39.1a	WT-1466
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WEAPONS TEST REPORTS-OPERATION PLUMBBOB

	<u>AGENCY</u>	<u>WT/POR</u>	<u>P/O</u>
1.1	BRL	1401	E. J. Bryant
1.2	NOL	1402	P. Hanlon
1.3	SRI	1403	L. M. Swift
1.4	SRI	1404	L. M. Swift
1.5	SANDIA	1405	WM. R. Perret
1.7	AFSWC	1406	W. H. Bultmann
1.8a,c	BRL	1407	E. J. Bryant L. M. Swift
1.8b	BRL	1408	E. J. Bryant
1.8c	SRI	Included in 1407	L. M. Swift
1.9	AFBMO	1487	J. F. Halsey
2.1	CWL	1410	Philip W. Krey
2.2	NRDL	1411	C. S. Cook
2.3	CWL	1412	David L. Rigotti
2.4	CWL	1413	Robert C. Tompkins
2.5	SCEL	1414	G. Carp
2.6	SCEL	1415	A. E. Cohen
2.7	NRL	1416	T. R. Hanscome
2.8	NML	1417	E.J. Dilanni
2.9	AFSWC	1418	Kermit C. Kaericher
2.10	AFSWC	1419	E. N. York
PROG 2	NOT AVAILABLE	1514	John A. Chiment
3.1	WES	1420	W. J. Flatheau
3.2	BUDUCKS	1421	G. H. Albright

WEAPONS TEST REPORTS-OPERATION PLUMBBOB (CON'T)

	<u>AGENCY</u>	<u>WT/POR</u>	<u>P/O</u>
3.3	NCER & EL	1422	G. H. Albright
3.4	AFSWC	1423	E. H. Bultmann, Jr
3.5	SRI	1424	R. B. Vaile, Jr
3.6	AFSWC	1425	E. H. Bultmann, Jr
3.7	BRL	1426	J. J. Meszaros
3.8	WES	1427	T. B. Goode
4.1	WRAIR	1428	G. M. McDonnel
4.2	WADC	1429	Wayne E. Gulley
5.1	BUAIR	1430	J. H. Walls
5.2	BUAIR	1431	D. A. Gilstad
5.3	BUAIR	1432	A. M. Julian
5.4	BUAIR	1433	J. H. Walls
5.5	WADC	1434	G. Stack
6.1	ERDL	1435	F. E. Deeds
6.2	DOFL	1436	P. H. Haas
6.2a	DOFL	1489	P. H. Haas
6.3	NADC	1437	William S. Lee
6.4	AFCRC	1438	Richard A. Noughten
6.5	WSPG	1439	G. W. Elder
8.1	QMRDC	1440	Frank H. Babers
8.2	NML	1441	W. L. Dirksen
8.3a	NRDC	1442	William B. Plumb

WEAPONS TEST REPORTS-OPERATION PLUMBBOB (CON'T)

	<u>AGENCY</u>	<u>WT/POR</u>	<u>P/O</u>
8.3b	WADC	1443	Charles J. Cosenza
	Summary Report of Dir.	1445	
PROG 9	LML, EG&G		

PLUMBBOB WEAPON TEST REPORTS

The following Weapon Test Reports (WT) give references to useful information about each DOD Experiment as may be helpful in the NTPR:

WT-1401, Project 1.1

Basic Airblast Phenomena

E. J. Bryant

J. H. Keefer

- 1 - A blast and shock experiment that participated on 10 shots: Franklin, Wilson, Priscilla, Hood, John, Kepler, Owens, Sotkes, Shasta, Gallileo.
- 2 - No radiation was measured but recovery of records from close-in gages probably resulted in small exposures to project personnel. pg.31 gives gage locations on Priscilla - (most heavily instrumented).
pg.96 " " " on all events.

WT-1402, Project 1.2

Field Test of a System for Measuring Blast Phenomena by Airborne gages.

P. Halon

J.S. Ives

U.S. Naval Ordnance Lab.

S. E. Cooper

G. S. Scholl

- 1 - Involved rocket & balloon borne pressure instruments and photo stations to triangulate gage positions on balloon tethers.
- 2 - Station layouts given in NTS coordinates-gages recovered after shot.
- 3 - Participated on two shots: Kepler and Owens.

WT-1403, Project 1.3

Airblast Phenomena in the High Pressure Region

L.M. Swift

SRI

Field Party- V. E. Krakow

D.C. Sachs

C.M. Westbrook

A.R. Kriebel

R.V. Ohler

Field Supervisor- W.M. Wells

H.C. Waner

" Chief - L.H. Inman

R.E. Aumiller

J. Milless

- 1 - Project participated on one event - Priscilla
- 2 - Gage layout given - gages hard-wired to recorders.

WT-1404, Project 1.4

Ground Acceleration, Stress, and Strain at High Incident Overpressures.

L.M. Swift

Field Chief= L.H. Inman

J. Milless

PLUMBBOB WEAPON TEST REPORTS (CON'T)

D.C. Sachs
F.M Sauer

Asst. Field Chief= W.M. Wells
Field Party: R.E. Aumiller
V.E. Krakow

R.V. Ohler
C.M. Westbrook
H. Wuner

- 1 - Part of report included in WT-1407.
- 2 - Project participated on one event - Priscilla.
- 3 - Various stress & strain gages were hard-wired to central station.
- 4 Report gives gage layout from 450ft to 1350ft.

WT-1405, Project 1.5 Ground Motion Studies at High Incident Overpressure.
W.R. Perret and Sandia Labs personnel.

- 1 - Participated on one event - Priscilla.
- 2 - Report gives gage range from GZ and depth.

WT-1406, Project 1.7 Loading on Simulated Buried Structures at High Incident Overpressures.

E.H. Bultmann ARDC

- 1 - Project participated on one event - Priscilla.
- 2 - Used buried instrument drums - no manned stations.
- 3 - Drums were recovered for data.

WT-1407, Project 1.8a and 1.8c Effects of Rough and Sloping Terrain on Airblast Phenomena.
E. J. Bryant BRL/SRI
L. M. Swift

- 1 - Project participated on one event-Smoky.
pg.6 gives list of BRL personnel
Fig 2.5 gives Field layout of gages relative to GZ.
pg.201-208 Photos of tower and gage lines
pg 131 - Map.

WT-1408, Project 1.8b Effects of Rough Terrain on Drag-Sensitive Targets
E.J. Bryant BRL

- 1 - Project participated on one event-Smoky.
- 2 - Involved deployment of vehicles-layout given in report.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

WT-1487, Project 1.9 Spectra of Ground Shocks Produced by Nuclear Detonations
J.F. Halsey - ARDC

- 1 - Project participated on Stokes, Smoky, Newton, Whitney, & Charleston.
- 2 - Used reed gages for shock spectra
- 3 - pg.13 Describes gage placement.

WT-1410, Project 2.1 Soil Activation by Neutrons
Philip W. Krey Radiological Division
Edward G. Wilsey U.S. Army Chemical Warfare Lab.
John H. McNeilly
Doris D. Peterson
Ernest W. Blooze

- 1 - Project participated on Franklin, Lassen, Wilson, Priscilla, & Owens.
- 2 - Core samples removed post shot by a 1000' cable.
- 3 - Report gives flux, levels, and decay rates- also gamma scattering data, gage locations for all 5 events.

WT-1411, Project 2.2 Neutron Induced Activity in Soil Elements
C.S. Cook R.L. Mather U.S. Naval Radiological
W.E. Thompson J.M. Ferguson Laboratory
F.M. Tomnovec P.R. Howland

- 1 - Project participated on Wilson, Hood, Owens, LaPlace.
- 2 - Pg.17 gives details of device environment
- 3 - Pg 23-24 details of helicopter and ground crew sample recovery.
- 4 - Pg.24 some samples removed 16 min. after event by ground crews.
- 5 - Pg.38 gives results.

WT-1412, Project 2.3 Neutron Flux from Selected Nuclear Devices
David L Rigotti Herbert O. Funsten U.S. Army Chemical
John W. Kinds Benjamin B. Binkowski Warfare Laboratory

- 1 - Project participated on Franklin, Lassen, Wilson, Priscilla, Hood, John, Owens, Smoky, LaPlace.
- 2 - Pg.16 gives procedure for recovery of detectors from radex field.
- 3 - Pg 17-19 gives location of detectors for each of nine events.
- 4 - Pg.21 gives map of detector layout-Smoky
- 5 - Pg.34 gives results.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

WT-1413, Project 2.1 Neutron and Initial Gamma Shielding

Robert C. Tompkins U.S. Army Chemical Warfare Laboratory
Clayton F. Weaver
Gerald A. Peterson

- 1 - Project participated on: Franklin, Lassen, Wilson, Priscilla, Hood & Owens.
- 2 - Measured Shielding afforded by trenches & shelters in NTS soil.
- 3 - Responsibilities: Ordnance Equipment - Edward J. Bryant-BRL
Field Fortifications- William H. Van Horn-ERDL/Desert Rock
Gamma measurements-Gerald W. Carp-ESL
Chemical Dosimetry-Sanford C. Sigoloff-SAM
- 4 - Project Personnel- Joseph C. Maloney 2nd LT. H. Craig Miller-ERDL
Carl Crisco Pfc. L. Neil MacKinnon-BRL
Capt. David W. Einsel, Jr. (CWL)
- 5 - Pg.15 gives shot participation & area of NTS.
- 6 - Pg.63 gives description of fortifications & shelters.

WT-1414, Project 2.5 Initial Gamma Radiation & Neutron-Induced Gamma Radiation of NTS Soil.

C. Carp B. Markow U.S. Army Signal Research
O. Johnson F. Lavicka & Development Laboratory
T. Baldwin W. McAfee
R. Larrick

- 1 - Project participated on: Boltzman, Franklin, Lassen, Wilson, Hood, John & Owens
- 2 - To determine initial gamma intensity vs time and distance from 1 msec to 20 Sec. Also to measure neutron-induced gamma as a function of time. Initial gamma on John shot is included
- 3 - Pg 15-87 = Initial gamma data.
- 4 - Pg 85-93 = Neutron-induced gamma data.

WT-1415, Project 2.6 Evaluation of New Types of Radiac Instruments

A.W. Cohen W.J. Ramm U.S. Army Signal
M.H. Jachter H.J. Reilly R&D Laboratory
LT. D. K. Koehler, USA C.R. Siebentritt
H.M. Murphy

- 1 - Project participated on Franklin, Lassen, Wilson, Priscilla & Hood.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

2 - Pg 19-20 describes recovery of dosimeters at H + 4Hrs. on all events-
gives locations.

3 - Pg.31 -describes post-Hood Surveys using the IM-123 meter.

WT-1416, Project 2.7 Investigation of Effects of Nuclear Detonations on
Electromagnetic Wave Propagation & Nuclear Radiation
Detector Design.

T.D. Hanscome	W.E. Kunz	U.S. Naval Research Lab.
P.A. Caldwell	C.A. Pearse	
S.G. Gorbics	C.M. Stout	
E.C. Jones		

1 - Project participated on : Boltzman, Lassen, Wilson, Priscilla, Hood,
Diablo, Kepler, Owens.

2 - Pg.29 gives instrument plan.

3 - Pgs 48, 59-63, 68-72 gives gamma ray data.

4 - Note-Should not have exposed project personnel to Radex areas.

WT-1417, Project 2.8 Evaluation of Military Radiac
E.J. Dilanni U.S. Naval Material Laboratory
F.C. Riffin

1 - Project participated on: Wilson, Priscilla, Hood, Diablo.

2 - Involved placement of instrumented masonite phantoms in
high radiation fields (50 R/hr).

WT-1418, Project 2.9 Nuclear Radiation Received by Aircrews Firing the
MB-1 Rocket

Capt. Kermit C. Kaericher, USAF	Air Force Special Weapons
Capt. Iedd P. Martin, USAF	Center
1st LT. James E. Banks, USAF	

1 - Project participated on the John shot.

2 - a/c instrumented for gamma & neutron dose.

3 - Crew received less than 5 Rep Neutrons & 3R Gamma.

WT-1419, Project 2.10 Initial Neutron & Gamma Air-Earth interface
Measurements

Capt. E.N. York, USAF	Air Force Special Weapons Center
Capt. R.E. Boyd, USAF	
1st LT. J.A. Blaylock, USAF	

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PLUMBBOB WEAPON TEST REPORTS (CON'T)

- 1 - Project participated on: Boltzman, Lassen, Wilson, Hood, Diablo, John, Kepler, Owens, Laplace.
- 2 - Pg.16 gives summary of gages & distances (and altitudes) from bursts.
- 3 - Personnel should not have been in radex areas.

WT-1420, Project 3.1 Blast Loading & Response of Underground Concrete-Arch Protective Structures

W.J. Flathaw	U.S. Army Engineer Waterways Experiment
R.A. Breckenridge	U.S. Naval Civil Engineering Laboratory
C.K. Wiehle	

- 1 - Project participated on Priscilla only.
- 2 - Although a structures experiment, effects of radiation on film and recording paper was measured in the 50-200 psi range of Priscilla.
- 3 - pg.123 gives table of results
- 4 - pg.18 gives project plot plan.

WT-1421, Project 3.2 Evaluation of Buried Conduits as Personnel Shelters

LT. JG. G.H. Albright, USN	Bureau of Yards & Docks
LCDR J.C. LeDoux, USN	&
LTJG R.A. Mitchell, USN	U.S. Naval Civil Engineering Lab.

- 1 - Project participated on Priscilla.
- 2 - Although a structures Experiment, buried conduits were instrumented with gamma film packets, chemical neutron dosimeters, and neutron threshold devices - pg.28.
- 3 - Results are tabulated on pg.66.

WT-1442, Project 3.3 Evaluation of Buried Corrugated Steel Arch Structures and Associated Components.

LTJG. G.H. Albright, USN	Bureau of Yards & Docks
LCDR J.C. LeDoux, USN	&
LTJG. R.A. Mitchell, USN	U.S. Naval Civil Engineering Lab.

- 1 - Project participated on Priscilla.
- 2 - Primarily a structures Experiment but buried structures were also instrumented for prompt gamma & neutron radiation.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

- 3 - Pg.12 gives a plot plan for the structures.
- 4 - Pg 100-106 describes interior and free-field radiation and summarize results.

WT-1423, Project 3.4 Blast Effects on Existing Upshot-Knothole and Teapot Structures.

Capt. E.H. Bultmann, Jr., USAF
Eugene Sevin
T.H. Schiffman

Armor Research Foundation
Structures Div., Research Directorate
AFSWC

- 1 - Project participated on Priscilla.
- 2 - Test of existing structures-no useful data on radiation.

WT-1424-1, Project 3.5a Isolation of Structures from Ground Shock
R.B. Vaille, Jr. Stanford Research Institute

- 1 - Project participated on Priscilla.
- 2 - No useful information for NTPR.

WT-1425, Project 3.6 Full-Scale Field Tests of Dome & Arch Structures

Capt. E.H. Bultmann Jr, USAF
T.G. Morrison
M.R. Johnson

Mechanics Research Division
American Machine & Foundry
AFSWC

- 1 - Project participated on Priscilla.
- 2 - No useful NTPR information.

LTR-1426, Project 3.7 Instrumentation of Structures for Air-Blast and Ground-Shock Effects

J.J. Meszaros
H.S. Burden
J.D. Day

Ballistics Research Laboratory

- 1 - Project participated on Priscilla.
- 2 - Provided Air-blast and ground shock instrumentation in support of other structures experiments. No radiation measurements made.
- 3 - No useful NTPR data.

WT-1427, Project 3.8 Soil Survey & Backfill Control in Frenchman Flat.

T.B. Goode
W.G. Shockley

R.W. Cunny
W.E. Strohm Jr.

U.S. Army Engineer
Waterways Experiment Station

- 1 - This project participated on Priscilla.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

2 - Project was in support of underground structures of Programs 1, 3, and 6, to assure that the backfill procedures assured pre-shot soil conditions.

3 - No data useful to the NTPR.

WT-1428, Project 4.1 Effects of Nuclear Detonations on a Large Biological Specimen

Lt.Col G. M. McDonald	Lt.Col Joseph T. Goldstein
Col William H. Crosby	Maj Kent Woodward
Col Carl F. Tessmer	Maj James N. Shively
Lt.Col William H. Moncrief, Jr.	Capt Harry W. Daniell
Lt.Col Hinton J. Baker	Capt Alexander Horava
Capt Harry A. Claypool	

Walter Reed Army Institute of Research

1 - Project participated on: Lassen, Wilson, Priscilla.

2 - Pgs 24-30 gives radiobiology detail

3 - Station locations are scattered throughout the report. Free-field and internal dosimetry was performed.

4 - Substantial numbers of personnel recovered specimens from Radex areas-dressed in Rad-safe gear.

WT-1429, Project 4.2 Evaluation of Eye Protection Afforded by an Electro-mechanical Shelter

Capt. Wayne E. Gulley, USAF	Aeromedical Laboratory,
Capt. Robert D. Metcalf, USAF	Wright Patterson AFB
Maj. Mathew R. Wilson, USAF	
Capt. Jerome A. Hirsch, USAF	

1 - Project participated on Boltzman, Wilson, Priscilla, Hood, Diablo.

2 - Project personnel not subjected to radiation-nor was it measured.

WT-1430, Project 5.1 In-flight Structural Response of an HSS-1 Helicopter to a Nuclear Detonation

J.H. Walls	BuAir
N.C. Heslin	Sikorsky Aircraft Div., United Aircraft Corp.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

- 1 - Project participated on Boltzman, Franklin, Wilson, Priscilla, Diablo, Kepler, Owens, Stokes.
- 2 - Report mentions no exposure of crew to radiation-nor was any ionizing radiation measured.

WT-1431, Project 5.2 Structural Response and Gas Dynamics of an Airship Exposed to a Nuclear Detonation.

D.A. Gilstad	BuAir
Christian G. Weeber	Aeronautical Structures Lab
Arnold Kviljord	U.S. Naval Material Center
Gordon W. Woods	

- 1 - Project participated on Franklin, Stokes
- 2 - Pg 62 gives distances from GZ, and were such as to receive little or no radiation. None was measured.

WT-1432, Project 5.3 In-flight Structural Response of the Model A4D-1 Aircraft to a Nuclear Detonation

J.H. Walls	Douglas Aircraft Co.
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- 1 - Project participated on Boltzman, Priscilla, Hood, Diablo, Shasta, Doppler, Smoky.
- 2 - pg.18 gives description of radiation data collection.
- 3 - pg.61 gives method used to interpret radiation data.
- 4 - pg.62 Gives radiation results for each event.

WT-1434, Project, Project 5.5 In-flight Structural Response of an F-89D Aircraft to a Nuclear Detonation

Capt. G. Stalk, USAF	Wright Air Development Center
1st LT. R.E. Gee, USAF	and Northrop Aircraft Co.
1st LT. J.P. Bednar, USAF	

- 1 - Project participated on: Boltzman, Franklin, Wilson, Priscilla, Hood, Diablo, John, Kepler, Owens, Stokes, Shasta, Doppler, Franklin, Smoky.
- 2 - Pg 15-16 Gives method of calculating radiation dose to aircrew and permitted dose to crew.
- 3 - Pg. 33 Gives table of radiation received per each of the events.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

WT-1435, Project 6.1 Mine-Field Clearance by Nuclear Weapons
Capt. F.E. Deeds, USA Midwest Research Institute
Felix W. Fleming and
Robert K. Stamp U.S. Army Engineering R&D Lab.

- 1 - Project participated on Priscilla.
- 2 - No radiation measurements were made.
- 3 - pg.24 gives project layout drawing.
- 4 - Since the minefield was as close as 920ft, recovery operations could have been within the Radex field.

WT-1436, Project 6.2 Measurement of the Magnetic Component of the Electromagnetic Field Near a Nuclear Detonation.

P.H. Haas
F.N. Wimenitz Diamond Ordnance Fuse Lab.
J.C. Hoadley
J.S. Wicklund

- 1 - Project participated on: Lassen, Wilson, Priscilla, Hood, Diablo, Owens.
- 2 - Pg.28 Gives station location and range for the events.
- 3 - No radiation data were recorded.

WT-1489, Project 6.2a Effect of a Nuclear Detonation on Semiconductor Devices.

P.H. Haas Diamond Ordnance Fuse Lab.
J.M. Schaul
W.V. Behrens

- 1 - Project participated on same events as Project 6.2.
- 2 - Pg 12 gives diagram of instrument placement and flux levels.
- 3 - Components Exposed to 4×10^{14} n/cm² and 0.1-100,000 R of gamma.

WT-1437, Project 6.3 Attenuation of Electromagnetic Radiation Through an Ionized Medium.

William S. Lee
Howard D. Krumboltz
George A. Gimber

U.S. Naval Air Development Center Johnsville, Pa.

PLUMBBOB WEAPON TEST REPORTS (CON'T)

- 1 - Project participated on: Franklin, Lassen, Wilson, Priscilla.
- 2 - Pg 17-19 gives flight track of a/c, GZ, and ground stations.
- 3 - No radiation was measured.

WT-1438, Project 6.4 Accuracy and Reliability of a Short Baseline
Naval System.

Maj. Richard A. Houghten, USAF Air Force Cambridge Research Center
Richard B. Harvey

- 1 - Project participated on all shots but Shasta, Whitney, and Morgan.
- 2 - This was an off-site project and should not have received any ionizing radiation.

WT-1439, Project 6.5 Effects of Nuclear Detonations on Nike Hercules.
G.E. Elder Electro-Mechanical Labs, Ordnance Mission, WSMR

- 1 - Project participated on Boltzman, Franklin, Lassen, Wilson, Hood, Diablo, Kepler, Owens, Charleston.
- 2 - To study effects of neutron/gamma on N-II Guidance systems in high fluence areas.
- 3 - Pg. 14 gives layout of stations.
- 4 - Pg. 27 gives table of neutron & gamma flux at each station.
- 5 - Recovery of foils & data should have produced radiation exposure to project personnel.

WT-1440, Project 8.1 Thermal Protection of the Individual Soldier
Frank H. Babers U.S. Army Quartermaster R&E Command.
Allan J. McQuade

- 1 - Project participated on Priscilla
- 2 - Pg 17 gives station designations & expected thermal Energy levels.
- 3 - Pg 18 gives recovery & ionizing radiation levels.

WT-1441, Project 8.2 Prediction of Thermal Protection of Uniforms, and
Thermal Effects on a Standard Reference Material.

W.H. Dirksen
T.L. Monahan Naval Material Laboratory
J. Bracciaventi
J.A. Carter
A. Hirshman

PLUMBBOB WEAPON TEST REPORTS (CON'T)

- 1 - Project participated on: Lassen, Wilson, Priscilla, Hood.
- 2 - Pg 13 gives distance of stations from GZ.
- 3 - Pg 22-24 gives thermal flux results.
- 4 - No ionizing radiation measured.

LTR 1442, Project 8.3a Performance of a High Speed Spectrographic System

William A. Plum	W.J. Parker	U.S. Naval Radiological
E.C.Y. Inn	R.J. Jenkins	Defense Laboratory

- 1 - Project participated on: Lassen, Wilson, Priscilla, Diablo, John Kepler.
- 2 - Report gives little data on instrument location-but implication is that the distance was 10 miles.

WT-1443, Project 8.3b Instrumentation for Measuring Effects Phenomena Inside the Fireball.

Charles J. Cosenza	Aircraft Lab., WADC
Richard G. Coy	University of Dayton Research Institute
Donald A. Kahle	" " " " " " " "
Thomas E. Pascoe	Allied Research Associates Inc., Boston, Ma.
Paul C. Iving	" " " " " " " "

- 1 - Project participated on Priscilla and Smoky.
- 2 - Pg. 57 Gives recovery & radiological data.

WT-1445, Project 9.1 Support Photography

Included in WT-1445-No individual report issued-No personnel listed.

Contractors-Lookout Mountain Laboratory-USAF
Edgerton, Germeshausen, & Grier, Inc.

- 1 - Project participated in all events of Plumbbob.
- 2 - Project provided technical photography on: Franklin, Lassen, Wilson, Priscilla, Hood, John, Owens, Smoky, Stokes
- 3 - Project performed documentary still & motion picture photography from manned stations on all events.

PLUMB BOB

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Nuclear Radiation Received By Aircrews Firing the MB-1 Rocket	WT-1418
ASROL - Operations of the Fallout Group of Project 50.3	SRDL TR-2088
CWLR - Alpha Contamination Studies At Operations Plumb Bob and HardTack	CWLR-2385
DASA - Neutron and Gamma Radiation from Shot Laplace	WT-1541
DASA - Operational Summary	WT-1444
EROL - Solubility Characteristics of Radioactive Bomb Debris in Water and Evaluation of Selected Decontamination Procedures	EROL-1569-TR
H&N - Post-Shot Analysis For Project 3.1	HN-80-1020C
UCRL - Test Director's Report on Opn. Plumb Bob	UCRL-5166

PROMPT GAMMA RADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NDL - Initial Gamma Data from Nuclear Weapon Tests, 1948 Through 1962.	NDL-TR-53

RADIOACTIVE CONTAMINATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
USAF - Preliminary Study of the Comparative Effectiveness of Atomic Weapons Under Different Burst Conditions (BUSTER-JANGLE Contamination)	USAF-OA-WP-31
AFSWC - Aircraft Contamination from Residual Stratospheric Nuclear Weapon Debris	SWC TN 59-5
AFSWC - Evaluation of Some Factors Influencing Radiation Dosage From Penetration of an Atomic Cloud by Manned Aircraft	SWC-TN-56-30
AFSWC - Radioactive Contamination of Aircraft	SWC-TN-56-26
ARDC - Radioactive Fallout from Atomic Bombs (TUMBLER-SNAPPER & UPSHOT-KNOTHOLE)	ARDC-C3-36417
CWL - Alpha Contamination Studies at Operations PLUMBBOB and HARDTACK	CWLR 2385

RADIATION MONITORING

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Combat Devs. Comd - Organization for Radiological Survey, 1965-1970,	ACDC/CBRA/648
Food & Drug Admin - Measuring & Monitoring Training Exercise: Foodstuffs, Op. PLUMBBOB (includes participation)	WT-1498
LASL - Radiological Safety, Op. HARDTACK (Task unit 6, JTF)	WT-1685
Naval Med. Res. Inst - Sea-water Radiological Monitoring Methods	WT-1689

RADIATION EXPOSURE i.e. IRRADIATION

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AEC - Operational Accidents & Radiation Exposure Within the U.S.	WASH 1192
Cinn. Univ - Radiation Effects in Man: Manifestations & Therapeutic Efforts	DNA 2751T
ERDA - Radiation Exposures for AEC & AEC Contractor Employees 1974 -	ERDA-RE
LBL - Bioassay Laboratory Report 1973 -	LBL BL
Nav. Rad. Def. Lab - Radiant Exposures from Air & Surface Nuclear Bursts	NRDL TR 69-53

RANGER

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Program Reports - Gross Weapons Measurements, Vol 4, (includes gamma measurements Vol 4, radiological Safety)	wt-201
Program Reports - operational vol 5 (includes preliminary report on activities of rad-sage group)	wt-204
Administrative Summary Report, Vol 6,	wt-205
Report of the Deputy Test Director, vol 1, (Ranger Test Group Org)	wt-206
LASL Operation Ranger, vol 2, Handbook for Operation Ranger & Summary of test results	OR/wt-202
LASL External Neutron measurements 1946 thru 1956	wt-9004
LASL Gamma Radiation Exposure as a Function of Distance	LA-1228
LASL A Summary of Test Results, Opn. Ranger.	LAMS-1240

REDWING

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Naval Medical Research Inst - Evaluation of Standard Navy Dosimeters ST-60/PD and IM-1071/PD in Residual Radiation Fields Aboard Ships	WT-1350
Cook Electric Co - In Flight Participation of F-84F ACFT	WT-1331
SEC - History of Task Group 7.4 in Redwing	SWC/TG 7.4/2
ORW - JTF7. Final Report of the Commander	ORW/TG 7.4/(FR)
SWC - Radiological Hazards From Contaminated ACFT	SWC SWR TM 59-4
NRDL - Characterization of Fallout	WT-1317
NRDL - Shipboard Radiological Counter Measure Methods	WT-1322
AEC - Fallout Location and Delineation By Aerial Surveys	WT-1318
LASL - Radiological Safety	WT-1366
LASL - Report of the Commander TG 7.1	WT-1359
AFSWC - Contact Radiation Hazard Associated with Aircraft Contamination by Early Cloud Penetrations	WT-1368
Cook Electric Co. - Thermal and Blast Load Effects on a B-47E Aircraft in Flight, Op. REDWING (A/C Participation)	WT-1327
McDonald Aircraft Co - F-101A Operation REDWING Effects Test (includes aircraft participation)	WADC TR 57-733
Martin Co - B-57B Operation REDWING Data (includes aircraft participation)	WADC TM 56-465
NRDL - Measurement of Thermal Radiation Incident on Naval Aircraft in Flight at Operation REDWING, PLUMBBOB, & HARDTACK	NRDL-TR-331
WADC - In-Flight Participation of B-66 Aircraft, Op. REDWING	WT-1329
ERDL - Crater Measurements	WT-1307
UCRL - Post-Operational Report-Program 22	UCRL-6283

SAMPLE COLLECTION-FALLOUT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Eberline - Soil Deposition; Op. ROLLER COASTER	POR-2501
Army Chem. & Rad. Labs. - Cloud Phenomena: Study of Particulate & Gaseous Matter, Op. GREENHOUSE	WT-72
Scripps Inst. Rad. - Techniques & Instruments Used for the Oceanographic Survey on Op. WIGWAM	WT-106
Isotopes - Sampling & Analysis for Gaseous Radionuclides at the NTS 1966 thru 1968	OSOTOP IWL 1300-169

SANDSTONE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Dept. Of AF Radiation Hazard From an Atomic Cloud	USAF/OA/WP-28
CJTF-7 Analyses of Experimental Results, Vol II,	OS/8
JTF-7 Narrative Report of Opn. Sandstone, Cdr. JTF-7	OS/1
JTF-7 Atomic Weapons Test, Enewetak Atoll, Cdr JTF-7 VOL 1, Annex, Part1	OS/2
JTF-7 Atomic Weapons Test, Enewetak Atoll, Cdr JTF-7 VOL 1, Annex 1, Part 2	OS/3
JTF-7 Atomic Weapons Test, Enewetak Atoll, Cdr JTF-7 VOL 1, Annex 1, Part 3	OS/4
JTF-7, Reports to the U.S. Atomic Energy Committee on Opn. Sandstone, Pt 1 VOL 1, Test Dir. Rpt	OS/5
JTF-7 Reports to the U.S. Atomic Energy Committee on Opn. Sandstone, Pt 1, VOL 2. Test Dir. pt	OS/6
JTF-7 Scientific Directors Report, of Atomic weapon Tests Vol 1, General Report.	OS/7
JTF-7 Sandstone Handbook of Nuclear Explosions, Vol III, Scientific Directors Report	OS/9
JTF-7 Opn. Sandstone Measurements by NRL, Annex 2, Part I, Scientific Directors Report	OS/11.
JTF-7 Opn. Sandstone Measurements by NRL, Annex 2, Part II, Scientific Directors Report	OS/12
JTF-7 Opn. Sandstone Measurements by NRL, Annex 2, Part III, Scientific Directors Report	OS/13
JTF-7 Blast Measurement Summary Report, Annex 5, Part I, Scientific Directors Report	OS/20
JTF-7 Participation by Bureau Yards&Docks, Scientific Director, Annex 6, Part II, Section 1 Scientific Directors Report	OS/25
JTF-7 Gamma Ray Measurements, Annex 8, Parts FV, Scientific Directors Report	OS/29

SANDSTONE, CONTINUED

JTF-7 Contamination Studies, Annex 9, Parts FV, Scientific Directors Report	OS/30
JTF-7 Thermal Effects & Decontamination Studies, Annex II, Parts I, II, III Scientific Directors Report	OS/32
JTF-7 Studies of Misc. Phenomena, Annex 13, Parts I, II, III Scientific Directors Report	OS/34
JTF-7 Scientific Meteorological Info., Annex 14, Scientific Directors Report	OS/35
JTF-7 General Organization w/staff Responsibilities, Annex 17, Parts II & III	OS/41
JTG 7.6 Operations phases A - E	OS/43
JTF-7 Operation Sandstone Nuclear Explosions 1948	OS/Bib.

STORAX

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
DOD - DOD Participation in BOBAC Event	VESIAC-C92 VU
DOD - DOD Participation in CAVY Event	VESIAC-C93 VU
DOD - DOD Participation in COLUMBIA Event	VESIAC-C97 VU
DOD - DOD Participation in WICHITA Event	VESIAC-C70 VU
DOD - DOD Participation in YORK Event	VESIAC-C91 VU
Pub. Health Service - Final Off-Site Report of the Project SEDAN Event	PNE-200F
REECo - The Sedan Event. On-Site Radiological Safety Report	PNE-203F
LASL - Release of Radioactivity from Los Alamos Events in Operations Nougat, Stcrax, & Niblick	LA-3269-MS

SUNBEAM

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
NRDL - Physichemical and Radiochemical Analysis	POR-2216
BRL - Radiochemical Interpretation of SMALL BOY FALLOUT	BRL-1623

TEAPOT

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFSWC - Contact Radiation Hazard Associated with Contaminated Aircraft	WT-1122
AFSWC - Manned Penetration of Atomic Clouds	WT-1156
AFSWC - Operational Summary Report	C-9751
AEC - Gamma & Neutron Radiation Measurements	WT-1174
UNIV OF CALIF - Distribution & Characterization of Fallout and Airborne Activity from 10 to 160 Miles From GD zero	WT-1178
UNIV OF CALIF - Evaluation of the Acute Inhalation Hazard from Radioactive Fall-out Materials By Analysis of Results from Field Ops and Controlled Inhalations Studies in the Lab.	WT-1172
UNIV OF CALIF - Beta Skin-Dose Measurements by Specially Designed Film Pack Dosimeters	Wi-1178A
Edgerton, Germeshausen and Grier, Inc - Accumulated Physical Effects For NTS zero Sites.	LEX-59.15 (PT.A)
FCDA - Indoctrination and Training of Radiological Defense Personnel	WT-1165
UNIV OF CALIF - Teapot Post Operational Report-TURKTEST	WT-1211
UNIV OF CALIF - Teapot Post Operational Report-Project 21.2	UCRL-4416
UNIV OF CALIF Medical Research Inst - Radiation Energy Absorbed By Human Phantoms in a Fission Fall-out Field.	WT-1120
UNIV OF CALIF - Research Lab - Hot Spot Experiment - Apple II Preliminary Report on Operations	NRL-4556
AFSWC - FTG-SP Operations Plan 1-54 For Opn. Teapot	SWC OP-1-54
AFSWC - Report on Operation Teapot	OTP-R. 299
AFSWP - Operational & Summary, Operation Teapot	WT-1158
AFSWP - Radiological Safety	WT-1166
LASL - Report of the Test Director	LA-1966

TUMBLER

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SWC-History of the Air Force Special Weapons Center Participation in Op. Tumbler Snapper vols 1 & 2	SWC/HIST/OTS
AFSWP-Final Summary Report - Op. Tumbler	WT-514

TUMBLER SNAPPER

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
SWC-Technical Air Operations, Op. Tumbler Snapper	WT-568
AROC-Radioactive Fall-out from Atomic Bombs-	ARDC/C3/36417
AWS-Air Weather Service Participation - Op. Tumbler Snapper	WT-506
LASL-Emissions from the Tumbler IV/Snapper 1 Tests	LA/6331/MS
LASL-Gamma Radiation Exposure as a Function of Distance Op. Tumbler Snapper	WT-
LASL-Radiation Monitoring Measurements, Op. Tumbler Snapper	WT-507
LASL-Staff Reports, Op. Tumbler Snapper (includes personnel, admin, plans & ops)	WT-553
AFSWP-Radiological Safety, Op. Tumbler Snapper	WT-558
LASL-Report of the Advisory Personnel to the Air Sampling Program	WT-556
SCEL - Gamma Ray Energy Spectrum of Residual Contamination	WT-523

UPSHOT-KNOTHOLE

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AFCRC-Preliminary Report on Radiochemical Analysis, Op. Upshot Knothole	C-393
AFCRC-Radiation Hazards to Personnel Within an Atomic Cloud, Op. Upshot Knothole	NT-743
SWC-Aircraft Participation, Op. Upshot Knothole	WT-825
SWC-History of AFSWC Participation in Op Upshot Knothole	SWC/HIST/UK
SWC-Operational Summary, Op. Upshot Knothole	SWC-15
AFSWP-Summary Report of the Technical Director, Op. Upshot Knothole	NT-782
AMSGS-Beta-Gamma Skin Hazard in Postshot Contaminated, Op. Upshot Knothole	WT-746
CALF UNIV-Comparison & Eval of Dosimetry Methods Appl. to Gamma Radiation, Upshot Knothole	WT-802
CALF UNIV-Dist & Characteristics of Fallout at Distances Greater than 10 Mi. FM GN Zero Upshot Knothole	WT-811
CALIF UNIV-Environmental & Biological Fate of Fallout From Nuclear Detonations in Area Adjacent to the NEV PROVING GROUND Upshot Knothole	WT-812
Chemical and Radiological Labs - Protection Afforded by Smoke Screens Against Thermal Radiation Op. UK	WT-812
Chemical and Radiological Labs-Radioactive Particle Studies Inside an Aircraft Op. UK	WT-717
Fed Civil Def Admin-Eval of TDG Program For Radiological Defense Personnel Op. UK	WT-808
Radiation Lab, Univ of Calif-Preoperational RPT on Upshot Op. UK	NCRL-4011 (REV)
CALIF UNIV, Radiation Lab-Radiochemistry Results. Op. UK	WT-823
LASL - Gamma Radiation as a Function of Distance Op. UK	WT-827
LASL - Report of the Deputy Test Director Op. UK	WT-816
Naval Air Materiel CTR - Atomic Weapons effects on AD Type Aircraft in Flight Op. UK	wt-748

UPSHOT-KNOTHOLE (CONT)

Rand Corp-Transport and Early Deterioration, of Radioactive Debris From Atomic Explosions	R-265
Signal Corps Eng Labs - Initial Gamma Exposure vs Distance Op. UK	WT-756
TAC - Indoctrination of Tactical Air CMD Air Crews in the Delivery and Effects of Atomic Wpns. Op. UK	WT-759
Wright Patterson Development CTR-Atomic Wpns Effects on B-50 Type Aircraft in Flight Op. UK	WT-749
Wright Patterson Development CTR-BLAST EFFECTS on - B-36 Type Aircraft in Flight Op. UK	WT-750
AFSWC - Air Weather SWC Participation Op. UK	WT-703
AFSWC - Project Summaries Op. UK	OUK/PS
AFSWP - Radiological Safety Operation Op. UK	WT-817
LASL - Staff Reports Part I Pers & Admin, Plans & Opns Op. U'	WT-822
AFSWP - Operations Summary Op. UK	OUK/OS
AF/AEC - Calibration Analysis of Close-in Bomb Debris Op. UK	WT-765
LASL - Activities of the Special Weather Advisory SVC Op. UK	WT-705
Signal Corps Engineering Lab - Gamma Radiation Spectrum of Residual Contamination OP. UK	WT-718
LASL - Analysis of Grable Nuclear Cloud Motions Op. UK	EGG/LAD/8566

WAHOO BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
BUSHIPS - Assessment of Ship Damage (includes target ships)	WT-1632
DTMB - Loading & Response of Submarine Hulls	WT-1629
DASA - Base Surge Radioactivity from Underwater Shots (WAHOO & UMBRELLA)	DASA-533 TAR

WALNUT BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
LASL - Dose Rate vs Time for WALNUT & YELLOW WOOD	LAMS-2374

WASP BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Signal R&D Lab - Gamma Dose Rate vs Time & Distance, Op. TEAPOT	WT-1118

WASP PRIME BURST

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
Army Signal R&D Lab - Gamma Exposure vs Distance - Op. TEAPOT	WT-1115
LASL - Gamma Radiation As a Function of Distance - Op. TEAPOT	WT-1208
NRL - Neutron Flux Measurements - Op. TEAPOT	WT-1116

WIGWAM

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
UNIV OF CALIF - Scientific Director's Summary Report	WT-1003
NRDL - Determination of Radiological Hazard to Personnel	WT-1012
NRDL - Radiological Safety for Wigwam	WT-1001
JTF-7 - Report of Commander TG-7.3	WT-1000
Naval Research Lab - Radiochemical Analysis of Wigwam Debris	WT-1010

SANDIA LABORATORIES TECHNICAL LIBRARY

<u>TITLE</u>	<u>LIBRARY LOCATION</u>
AEC - Planning Directive (NTS-21-3-63) FERRIS WHEEL - Initial Shot Series	RS-3446/7235
COMFIRSTFLT - COMFIRSTFLT Operations Order #214-62, Op. WEAPON, Sys. Test. DEEP DIVE	RS-3446/4852
HQ TASK GP 8.5 - OP PLAN 2-1-62 for Op. DOMINIC (Organization, Personnel)	RS-3446/4758
JTF-8 - OP PLAN 2-62, for Op. DOMINIC	RS-3446/2590
CJFT-7 - Administrative Plan 1-58	JTF-AP-1-58